

U.S. PTO
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10-1

330

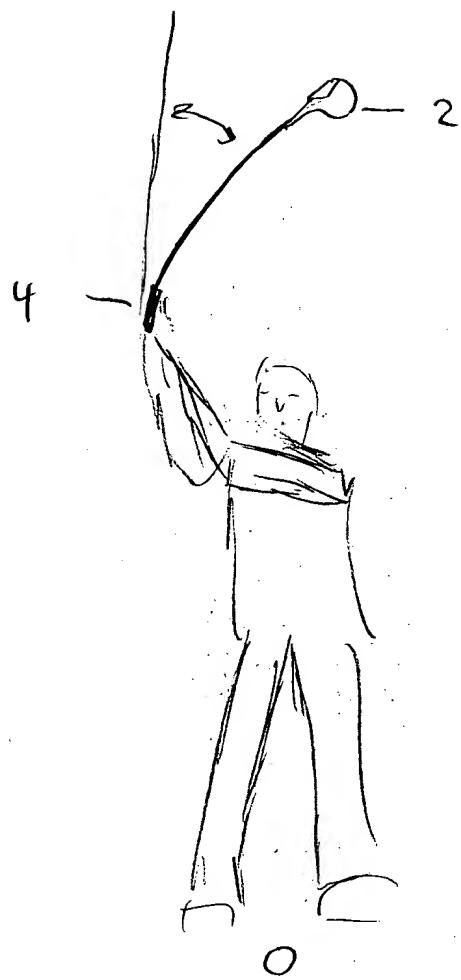


FIG 1

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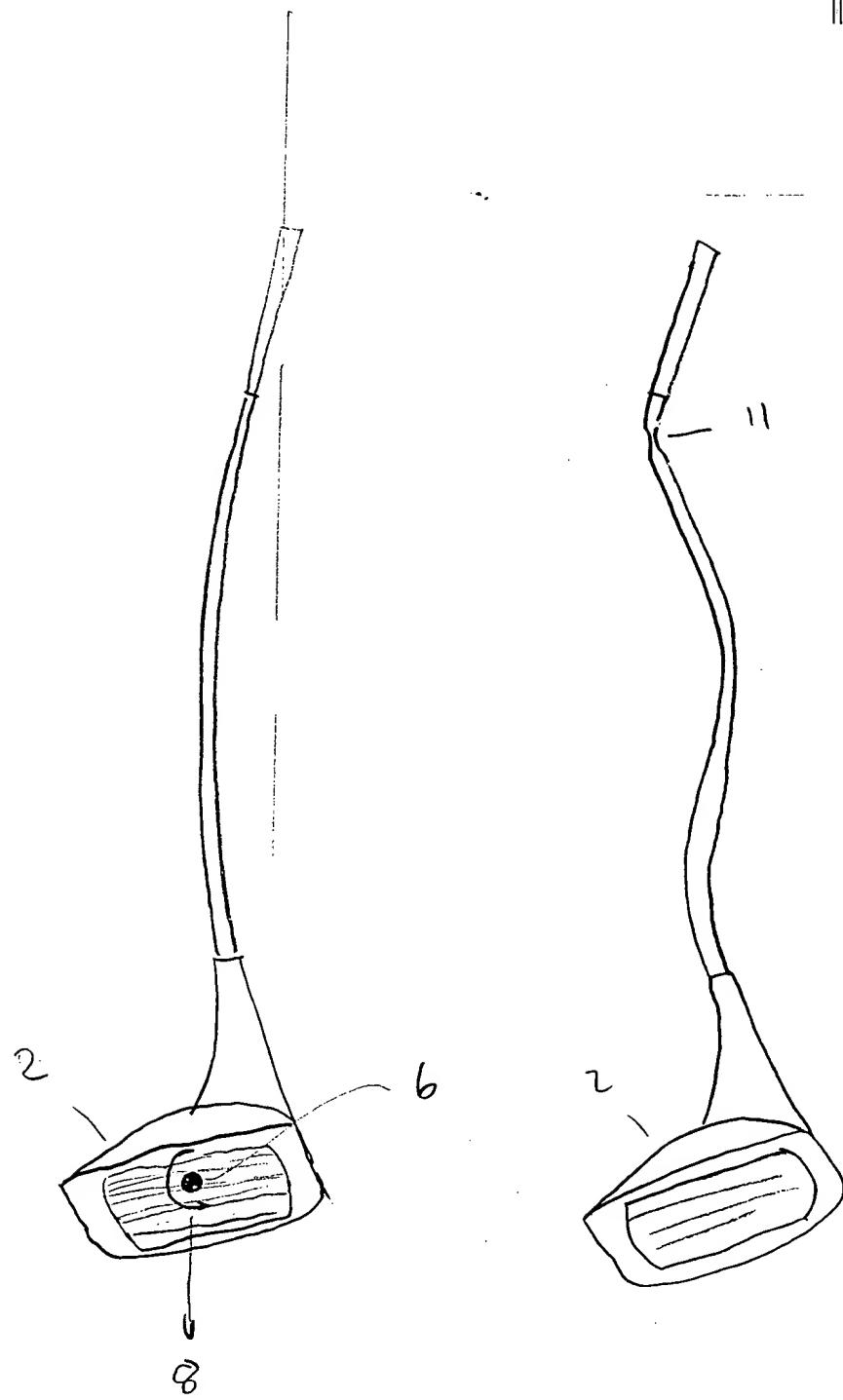


FIG 2A

FIG 2B

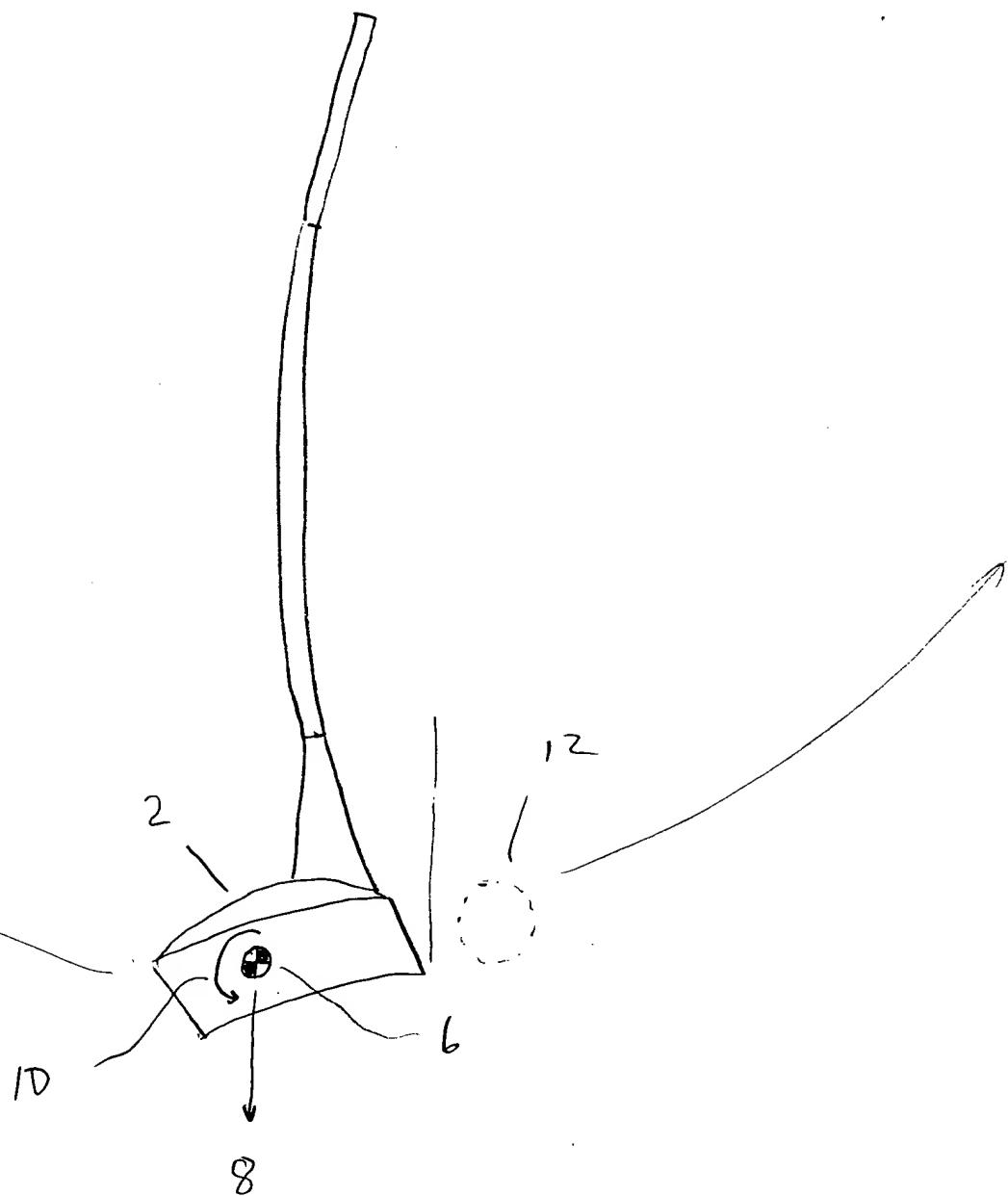
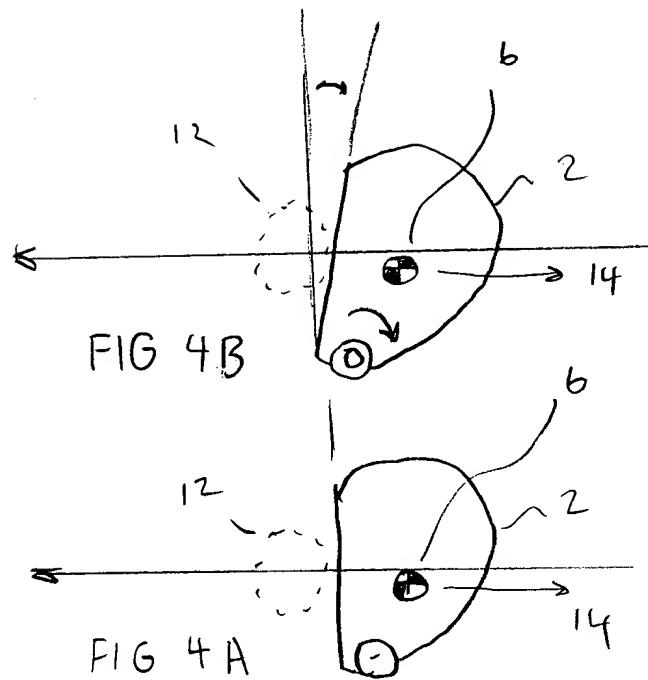
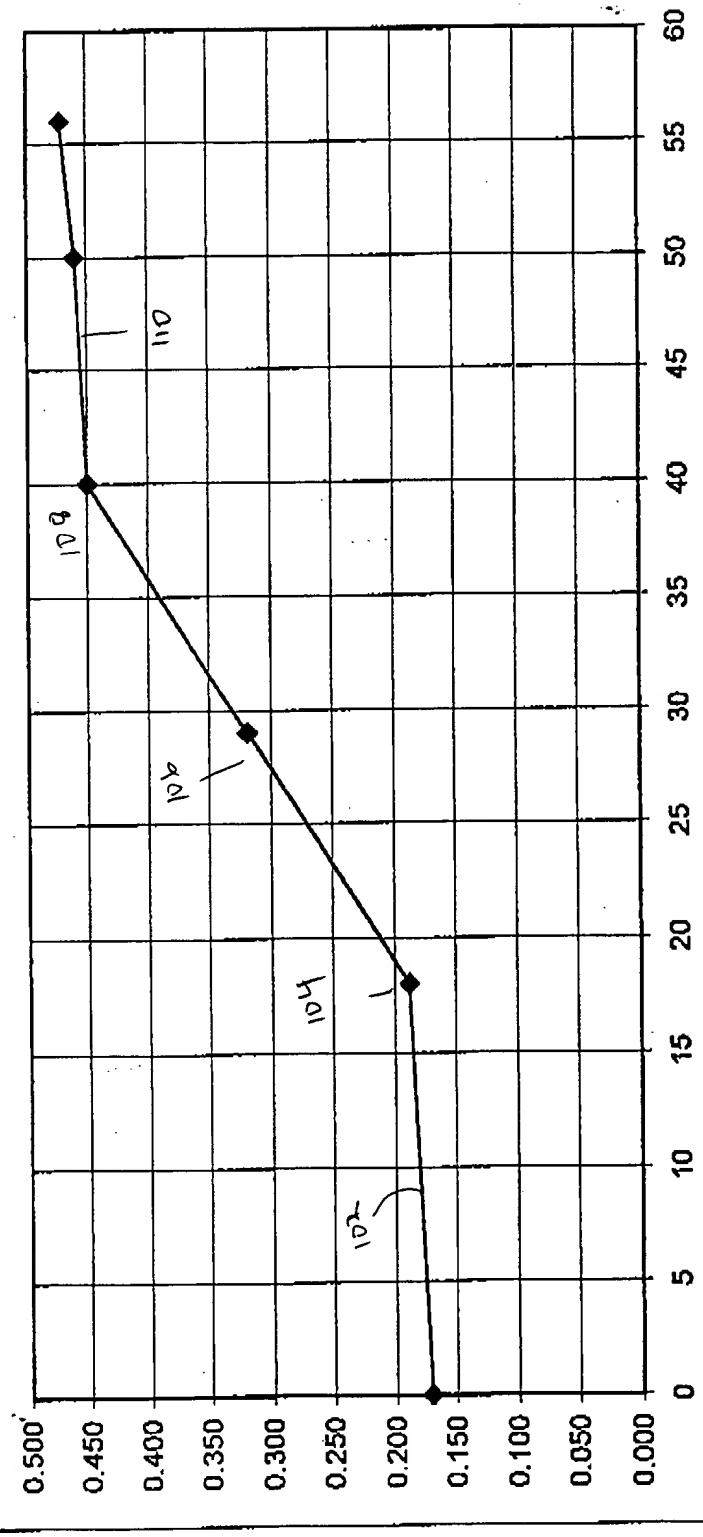

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FIG 3



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FIG 5 B



31 -

 10^4 10^5

FIG 5 A

- 52

30



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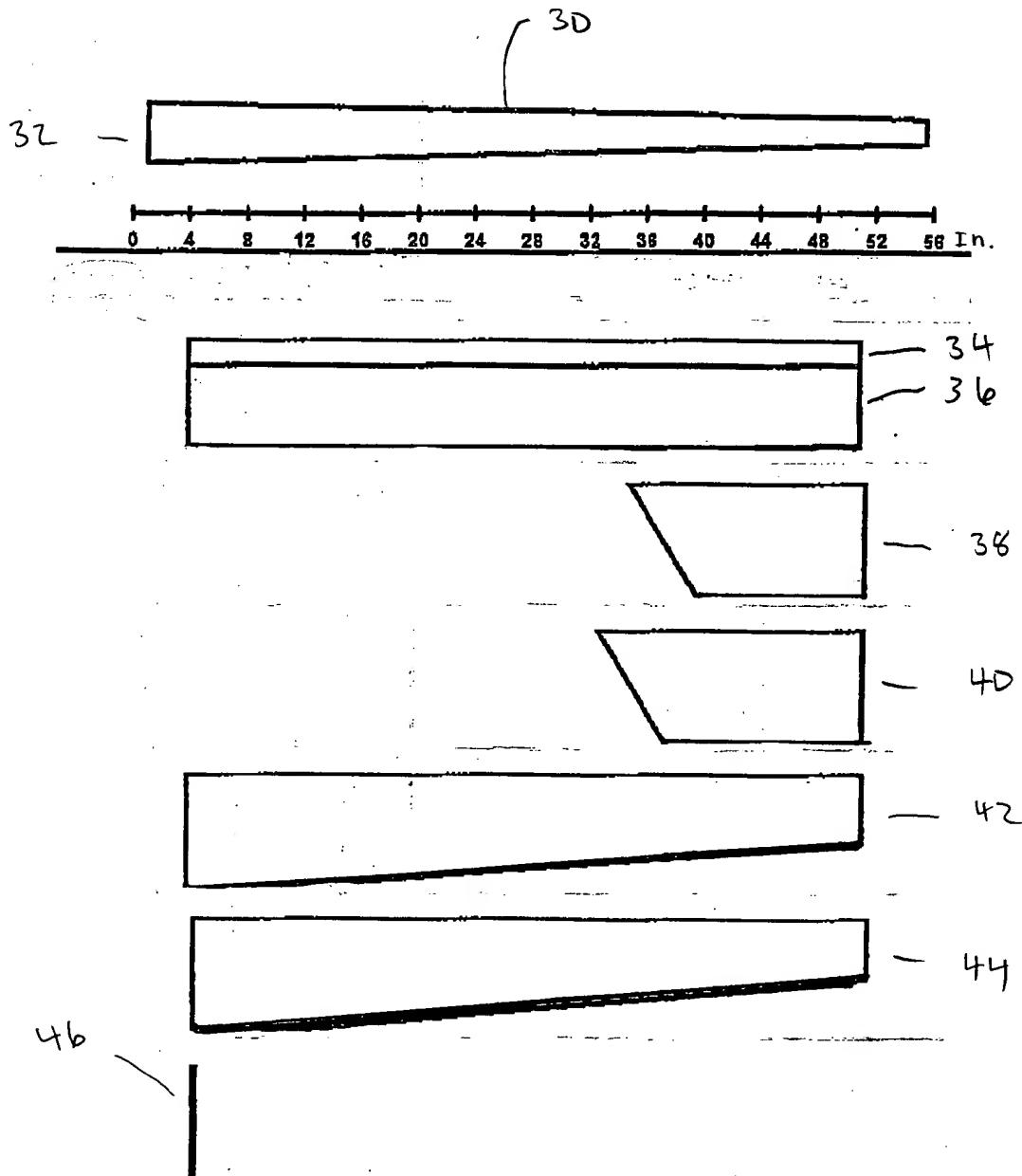


FIG 6

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FIG 7B

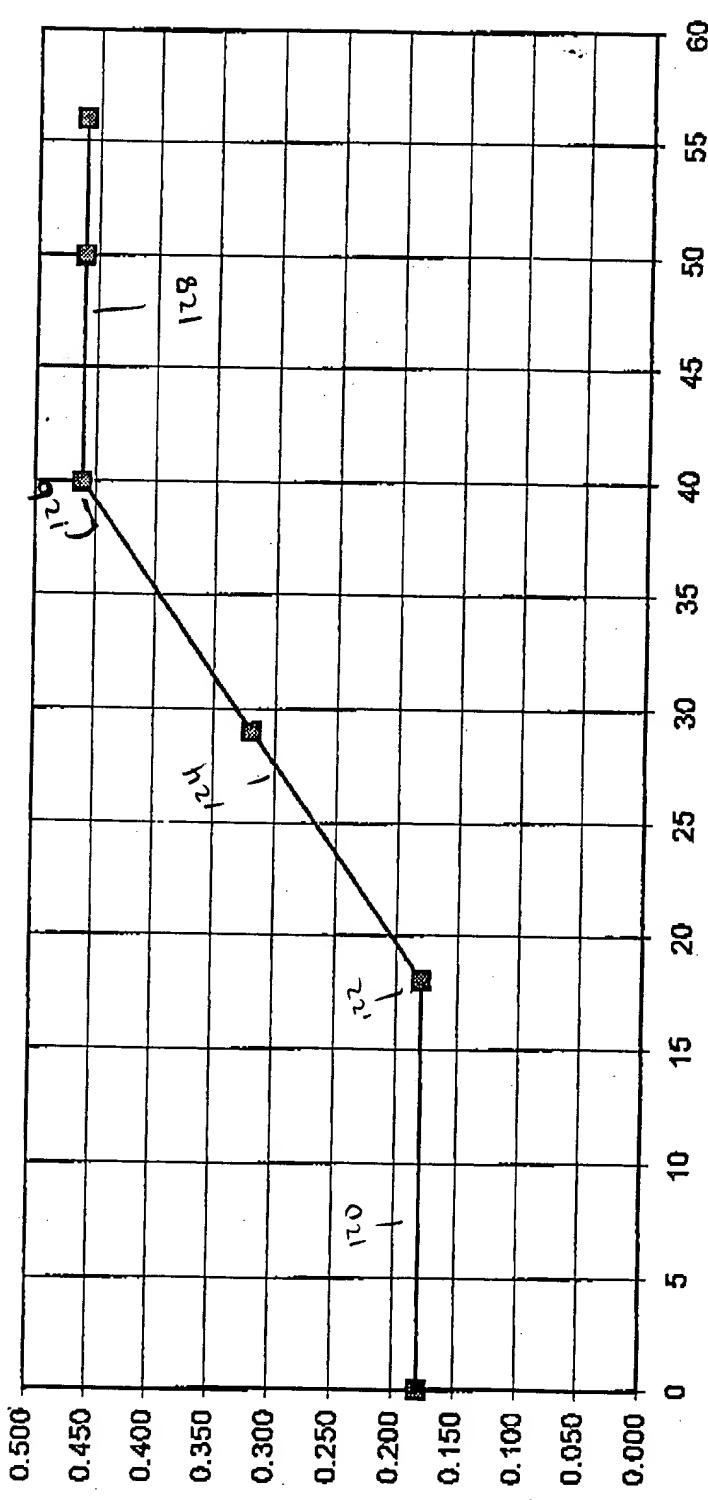
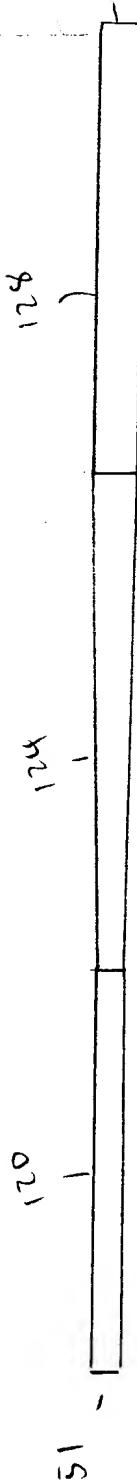


FIG 7A



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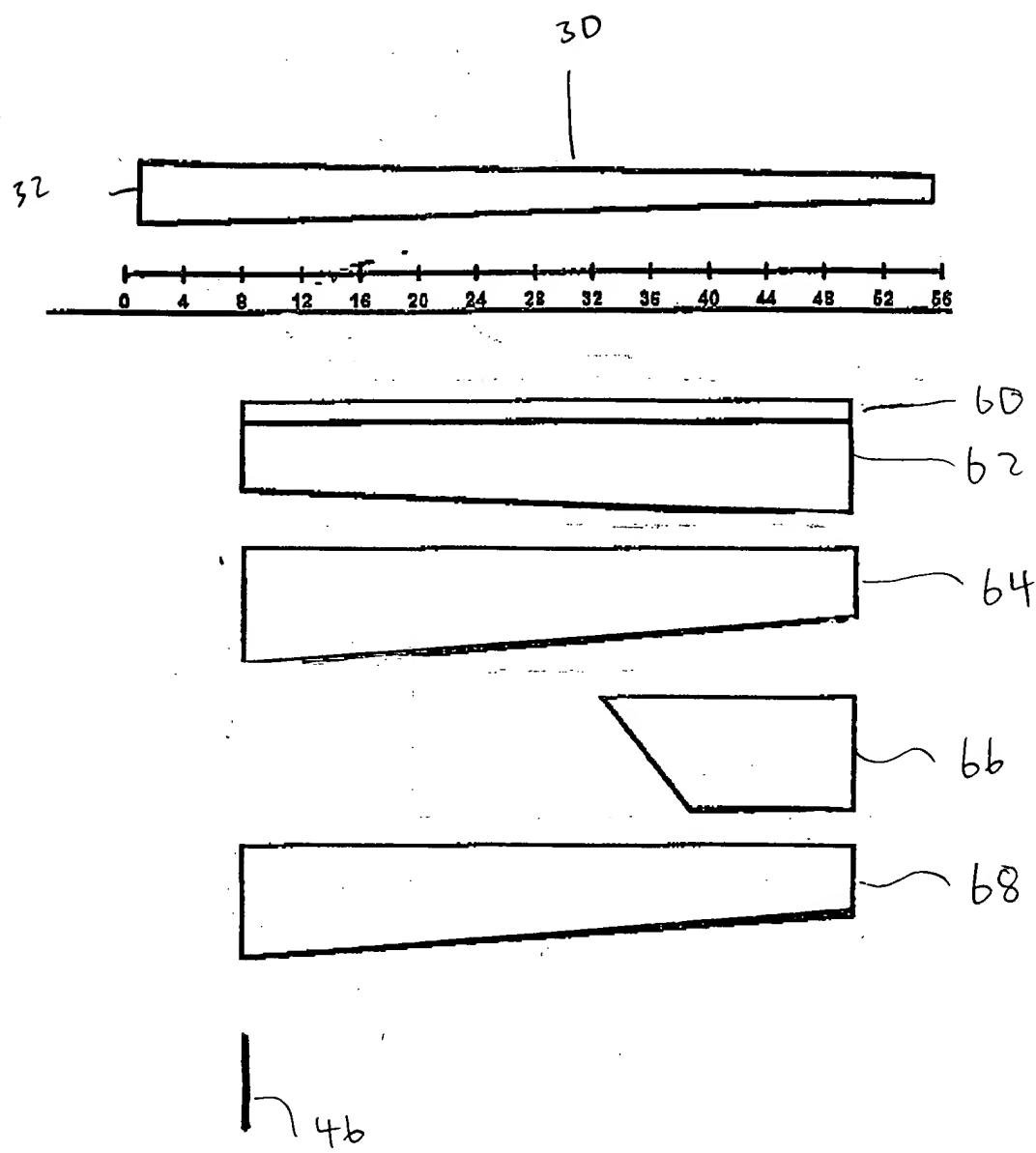


FIG 8

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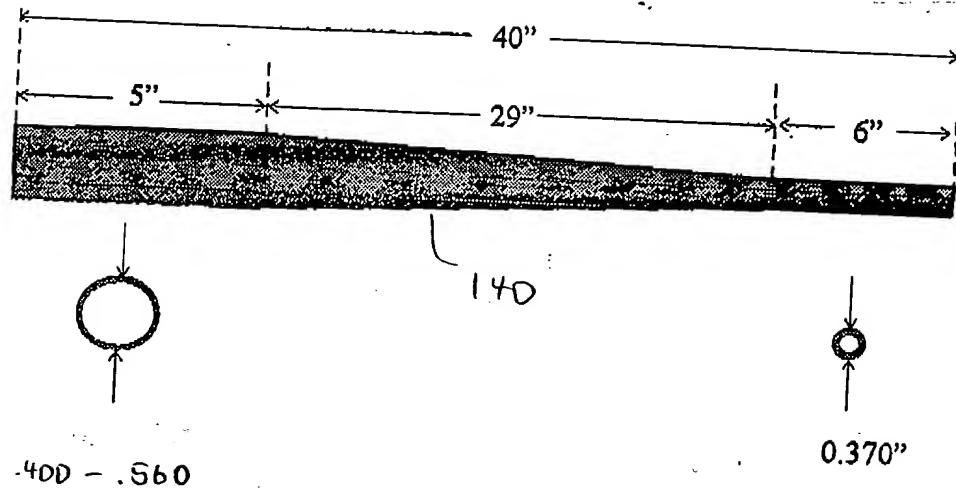


FIG 9A

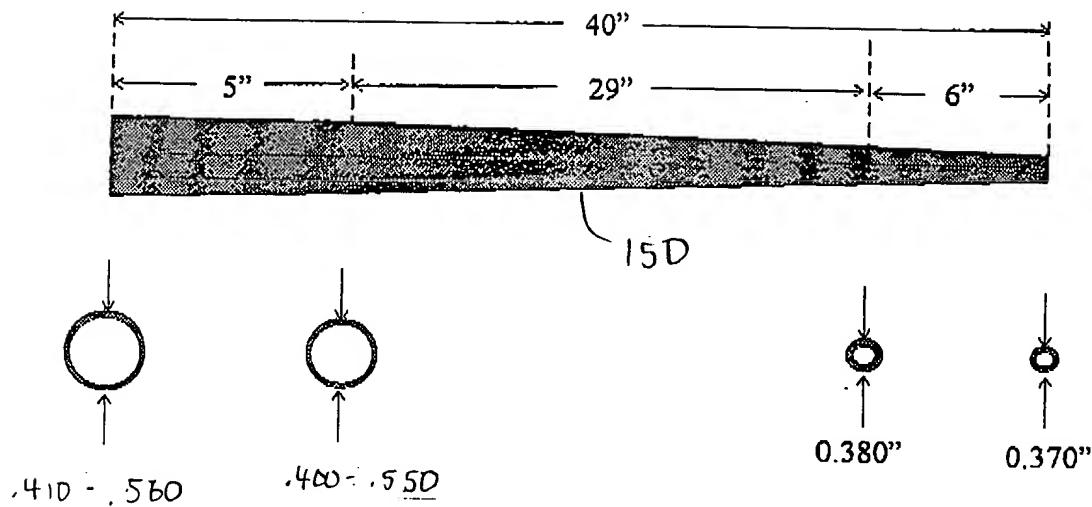


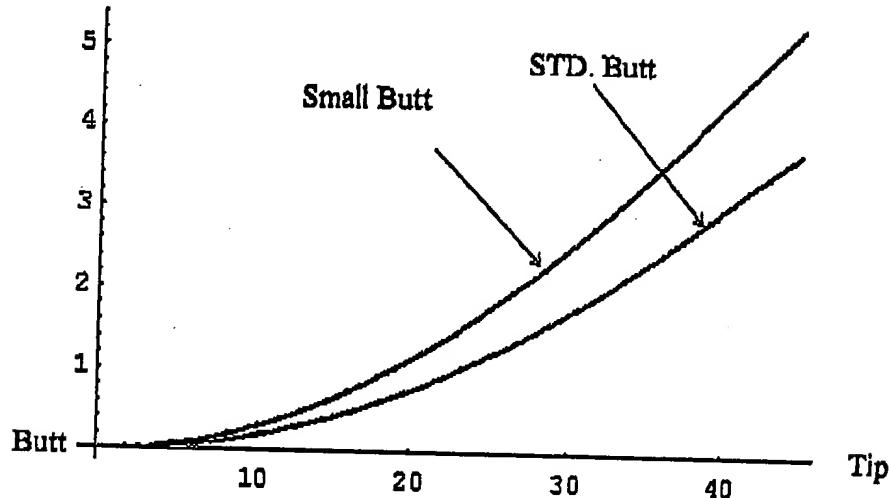
FIG 9B



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IV: Cantilever Beam:

Case 1:

Length=45"
 OD/std=.620"
 OD/small=.540"
 Tip Load = 6 lb

**V: Simply Supported Beam**

Case 1:

Length=45 "
 OD/std=.620"
 OD/small=.540"
 Moment, @butt=1 ft lb
 Moment, @tip=1 ft lb

FIG 1D

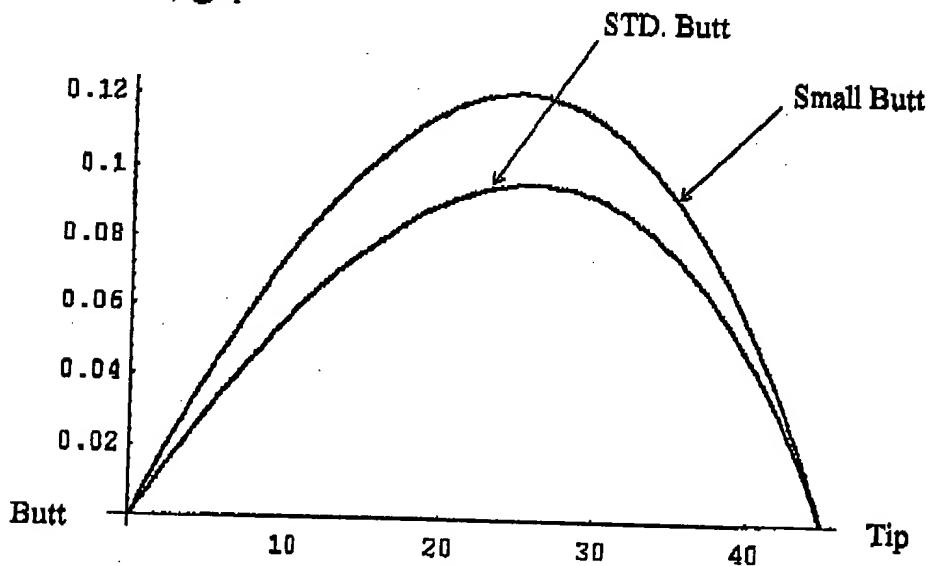


FIG 1I